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comparison to said substrate, wherein the capacitor is conductively connected in series to said component such that temperature data from said component are transmitted over a two-pole supply lead that is used to supply said first electrode and said second electrode.

-- 14. (New) A piezoelectric ultrasound transmitter according to claim 13, wherein said first electrode has a nose, which provides on said first surface a connecting pad via which said component is conductively connected to said first electrode.

-- 15. (New) A piezoelectric ultrasound transmitter according to claim 14, wherein said second electrode has a nose, which extends over the rim of said substrate and provides on said first surface a connecting pad via which said component is conductively connected to said second electrode.

-- 16. (New) A piezoelectric ultrasound transmitter comprising a substrate made of a piezoelectric material provided with a first electrode on a first surface and a second electrode on a second surface opposite said first surface, said first electrode and said second electrode forming a capacitor, said first surface having an electrode-free rim surface on which is disposed a component having temperature-dependent behavior and a high impedance in comparison to said substrate, wherein the capacitor is

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conductively connected in parallel to said component such that temperature data from said component are transmitted over a two-pole supply lead that is used to supply said first electrode and said second electrode.

-- 17. (New) A piezoelectric ultrasound transmitter according to claim 13 or 16, wherein said substrate is made of a piezoceramic.

-- 18. (New) A piezoelectric ultrasound transmitter according to claim 16, wherein said first electrode has a nose, which provides on said first surface a connecting pad via which said component is conductively connected to said first electrode.

-- 19. (New) A piezoelectric ultrasound transmitter according to claim 18, wherein said second electrode has a nose, which extends over the rim of said substrate and provides on said first surface a connecting pad via which said component is conductively connected to said second electrode.

-- 20. (New) A piezoelectric ultrasound transmitter according to claim 14, 15, 18 or 19, wherein said component is a PTC resistor.

-- 21. (New) A piezoelectric ultrasound transmitter according to claim 14, 15, 18 or 19, wherein said component is a NTC resistor.